



Figure S1. Figure of the wild-type prawn (up) and the orange-red variant prawn (down).

Unigene0036561	-----MLPFLIAACALFSTTALGHIDVGVCPIVDKYDFDPVPYLGRWYEAQRFHIVY
Unigene0044620	MFEYLILLSAALVTVSHGMIISGEPKVDVGQCPNITNKYDFAAPYLGWYELERFPMSF
Unigene0028810	-----MNLNQMTSGQVFFRGPCPDIPPLKDFQPKRFLGRWYIEIRFFVSY
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Unigene0036561	E--IGQDCVNTIYDDLGDGYIGVHNMGSRASGNLTDISG--KAHLIAPG--VLSVEFLGY
Unigene0044620	E--AGQDCVTATYSVLDDVYIKVYNRARLLKGPIVDITG--RAHVIAPG--VLLVEFFTM
Unigene0028810	EDLAGSCWVENYLFKGRGHFTRLWDKHLSGRIILSIENGITFGKKEPGRLRYVVQRPSI
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Unigene0036561	PAG--DYHVLGTDYENFSCVYDCEQD--GPLRTQHAWLLTRAKIPDEATFEIANEVFARN
Unigene0044620	ENSGAEYHVLDTDYEKFACVYNCVQT--GPVRAQYAWLLSRTTMDDETYNHAMGVFTDN
Unigene0028810	PILQGEYQILATDYYSYALAWQCMDFPLSLGHTEILWFLSKEQFPSYETEQTAKRLAAKF
	:*: * *** . : : *: : . : : *: *: : . * : * : :
Unigene0036561	GIDVSLFHRTHQGDDCPYVV
Unigene0044620	GIDISLFQTTYQASDCPYLE
Unigene0028810	GLHVKSLLKQDR-THCPL--
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Figure S2. Alignment of Apolipoprotein D amino acid sequences. Unigene0036561 and Unigene0044620, which were all with lower expression level in the orange-red variant, shared 65.63% sequence identity. Unigene0028810 which was with lower expression level in the orange-red variant, shared only 40.61% and 37.31% sequence identity with Unigene0036561 and Unigene0044620, respectively.